

LOZIER ENVIRONMENTAL CONSULTING, INC. ASBESTOS SERVICES

PRE-DEMOLITION ASBESTOS SURVEY

BUILDING 2 1170 GENESEE STREET ROCHESTER, NEW YORK

PREPARED FOR:

CITY OF ROCHESTER
30 CHURCH STREET
ROOM 028-B
ROCHESTER, NEW YORK 14614

August 15, 2008

CITY OF ROCHESTER BUILDING 2 1170 GENESEE STREET ROCHESTER, NEW YORK

PRE-DEMOLITION ASBESTOS SURVEY

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CITY OF ROCHESTER BUILDING 2 1170 GENESEE STREET ROCHESTER, NEW YORK

INTRODUCTION

ASBESTOS SURVEY REPORT

Lozier Environmental Consulting, Inc. was retained by the City of Rochester, to conduct a predemolition asbestos survey on July 23 thru August 5, 2008 at Building 2 - 1170 Genesee Street, Rochester, New York. This report refers to the interior and exterior of a vacant, two-story apartment building with an attic and basement. The exterior sampling does not include the roof or roof flashing.

New York State Department of Labor certified inspectors Ron Arthurs and Angela Cartella conducted the inspection with procedures and guidelines commonly used and accepted in New York State. The objective of this inspection was to evaluate, correlate, and quantify all asbestos containing materials for future demolition purposes.

The initial walkthrough was conducted by the inspectors who observed and recorded those suspect materials used in the construction of the building such as floor, wall, and ceiling materials, surfacing materials, thermal systems insulation, roofing, caulks, and miscellaneous materials.

The inspector selected materials for inclusion in this report through their expertise and through an understanding of the historical uses of asbestos. Samples were collected from locations and recorded on a chain of custody document, recorded on a drawing, and individually retained within a container and transported to the Lozier analytical laboratory for analysis.

The Survey Report is divided at follows:

- 1. Introduction: Summation of sampling protocol and analysis methods.
- 2. Limitations: Summation of sampling conditions and restrictions at the time of inspection.
- 3. Conclusions: The conclusion section is broken down into the following items:
 - a. Materials Sampled: An inclusive list of all suspect materials sampled throughout the building and classified by use.
 - b. Asbestos Containing Materials by Location: In this space by space breakdown, all asbestos materials are described by their location, description and square or linear footage as found in each designated space.
- 4. Drawings: Interior and exterior drawings designate the approximate sampling location of materials analyzed.
- 5. Laboratory Analytical Reports: Sample data and analysis results by PLM and TEM methods.
- 6. Certifications of Laboratory and Personnel.

Lozier Environmental Consulting, Inc. is accredited through New York State Department of Health ELAP (Lab ID# 11770) for Solid and Hazardous Waste and Air and Emissions for Bulk Asbestos Fiber Analysis by polarized light microscopy (PLM). The analysis methodology used for asbestos bulk samples is as follows: New York State Department of Health ELAP Method 198.1 and 198.6; Polarized Light Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and EPA 600/M4/82/020. Asbestos containing materials are defined as those materials containing greater than 1.0% asbestos.

Non-friable organically bound materials, which were determined negative by PLM, and contained greater than 1% residue after gravimetric reduction, were analyzed by transmission electron microscopy (TEM) by ELAP Method 198.4 at AmeriSci Laboratories, which is a New York State ELAP-Certified Laboratory (ELAP Lab ID# 11480).

Samples are stored at the laboratory for 60 days then disposed of in accordance with state and federal regulations.

REGULATORY REVIEW

Asbestos is regulated at the federal level by the Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA), and at the state level by the New York State Department of Labor (NYSDOL) and the Department of Environmental Conservation (DEC).

Regulations are differentiated by the distinctions between friable and non-friable asbestos containing materials. Friable material is defined as a "material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure." Friable ACM is generally more of a concern as it is more likely to release asbestos fibers when damaged or disturbed. Materials such as floor tiles, roofing, and mastics are considered non-friable and typically present a very limited potential for fiber release. Both friable and non-friable ACM materials are subject to government regulations when and if fibers are released if significantly disturbed.

OSHA Regulations

OSHA regulations 29CFR 1910.1001 and 29CFR 1926.1101 provide for protection of workers exposed to asbestos. These regulations define a maximum permissible exposure limit (PEL) and an excursion limit for worker exposure to airborne asbestos fiber concentrations. These regulations assign specific responsibilities to building owners relative to asbestos, including the identification of asbestos containing materials, notification of employees and contractors, and training. The OSHA hazard communication regulations 29CFR 1910.1200, are designed to provide assurance that hazards of substances are evaluated and that information concerning their hazards is transmitted to employers and employees by means of comprehensive hazard communication programs.

EPA Regulations

EPA regulations are written for the general protection of non-occupational exposure and for the environment. EPA regulation 40CFR Part 763 – the Asbestos Hazard Emergency Response Act (AHERA), requires local education agencies to identify ACM in school buildings and to take appropriate actions to control release of asbestos fibers. Although AHERA does not apply to facilities such as residential or commercial structures, the standards and procedures established by this legislation are generally considered to be the accepted standard of care for the industry.

EPA also enforces the National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation 40CFR 61 Subpart M, which requires that a pre-demolition asbestos survey be conducted prior to demolition/renovation of a building. NESHAP requires most types of ACM to be removed from the building prior to these activities and specifies specific removal and disposal methods.

EPA regulation 40CFR Part 302, derived under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), requires that the National Response Center be notified when there is a release in the environment of one pound or more of friable asbestos.

New York State Regulations

New York State Department of Labor (DOL) enforces the regulation 12NYCRR Part 56 (Code Rule 56) which is applicable to asbestos-related work in the State of New York. Code Rule 56 is concerned with training, licensure, notification and record keeping requirements, and describes work procedures and engineering controls to be used on asbestos remediation projects. Persons performing asbestos-related work, including operations and maintenance, must complete an approved safety course and hold state certification. Code Rule 56 also requires that an asbestos survey be conducted to identify ACM within a building prior to building demolition activities.

In accordance with New York State, Industrial Code Rule 56-1.9 (d); "Information derived from the building survey **shall be immediately transmitted by the building owner or his/her agent** to the commissioner through the Department's Division of Safety and Health, Asbestos Control Bureau, and to the local government entity charged with issuing a permit for such demolition under applicable State or local laws or, if no such permit is required to the town or city clerk where the building is located." The local New York State DOL office is located at:

State of New York
Department of Labor
Division of Safety and Health
Asbestos Control Bureau
65 Court Street
Buffalo, New York 14202

Asbestos Waste

Transportation and disposal of asbestos waste materials are regulated by NESHAP, the Department of Transportation (DOT) and the New York State DEC.

CITY OF ROCHESTER BUILDING 2 1170 GENESEE STREET ROCHESTER, NEW YORK

LIMITATIONS

The information provided in this report was compiled from field and laboratory data generated by Lozier Environmental Consulting, Inc., and was prepared for reference to the interior and exterior of Building 2 - 1170 Genesee Street, Rochester, New York. An inspection and/or sampling of the roof and its associated building materials was not conducted.

Observations noted and recorded are intended to represent the conditions that existed at the subject site at the time and date that the observations were made.

Determinations and quantifications of suspect asbestos containing materials within the building were subject to the accessibility of areas. Lozier Environmental Consulting, Inc. accepts no responsibility for the content of building materials within areas or spaces that were unknown to us or not reasonably accessible.

Conclusions and recommendations provided in this report are based on the assumptions that materials identified are homogeneous throughout their application.

Lozier assumes no liability for any other buildings that were not identified by the Client that may fall under state or federal regulations.

CITY OF ROCHESTER BUILDING 2 1170 GENESEE STREET ROCHESTER, NEW YORK

CONCLUSIONS

The following is a breakdown of all materials sampled and analytical data by Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM) methods. A unit of layered materials is treated as asbestos containing material (ACM) if one or more layers contain asbestos greater than 1%.

MATERIALS SAMPLED - REFER TO SAMPLE LOCATION DRAWINGS

MATERIAL (SAMPLE NO.)	FRIABLE/NON- FRIABLE/NOB	ASBESTOS BY PLM	ASBESTOS BY TEM
Flooring			
Beige with Brown Streaks 12"X12" Floor Tile-1 st Layer (11A)	NOB	Chrysotile 13.8%	
Tan Floor Tile Mastic-2 nd Layer (11B)	NOB	Chrysotile Trace	None Detected
Beige with Brown Specks 12"X12" Floor Tile (Side by Side)-1 st Layer (12A-1)	NOB	None Detected	None Detected
Beige Mottled 12"X12" Floor Tile-2 nd Layer (12A-2)	NOB	None Detected	None Detected
Tan Floor Tile Mastic-3 rd Layer (12B)	NOB	None Detected	None Detected
Brown Floral Sheet Vinyl-1 st Layer (16A)	NOB	None Detected	Treat as ACM
Brown Floor Tile Mastic-2 nd Layer (16B)	NOB	None Detected	Treat as ACM
Brown Floor Tile-3 rd Layer (16C)	NOB	Chrysotile 22.2%	
Blue Speckled 12"X12" Floor Tile-1 st Layer (18A)	NOB	None Detected	Not Required
Black Floor Tile Mastic-2 nd Layer (18B)	NOB	None Detected	None Detected
Green Battleship Flooring-3 rd Layer (18C)	NOB	None Detected	None Detected
Beige with Dark Brown Streaks 12"X12" Floor Tile-1 st Layer (22A)	NOB	Chrysotile 16.7%	
Tan Floor Tile Mastic-2 nd Layer (22B)	NOB	None Detected	None Detected
Beige/Brown/Green Speckled 12"X12" Floor	NOB	None Detected	None Detected
Tile-1 st Layer			
Black/Tan Felt Paper/Floor Tile Mastic-2 nd	NOB	None Detected	None Detected
Layer (23B) Brown Floral Sheet Vinyl-1 st Layer (24A)	NOB	None Detected	None Detected
Tan Floor Tile Mastic-2 nd Layer (24A)	NOB	None Detected	None Detected
Green Battleship Flooring-3 rd Layer (24C)	NOB	None Detected	None Detected
Black Floor Mastic (25)	NOB	None Detected	Not Required
Brown/Blue/White Speckled 12"X12" Floor	NOB	None Detected	None Detected
Tile-1 st Layer (28A)	NOD	None Detected	None Detected
Black Floor Tile Mastic-2 nd Layer (28B)	NOB	Chrysotile Trace	None Detected

MATERIALS SAMPLED - REFER TO SAMPLE LOCATION DRAWINGS

MATERIAL (SAMPLE NO.)	FRIABLE/NON- FRIABLE/NOB	ASBESTOS BY PLM	ASBESTOS BY TEM
Wall/Ceiling Finishes White Wall Spackle (1) White Wall Plaster-1 st Layer (2A) Grey Wall Plaster-2 nd Layer (2B) Beige Wall Plaster-3 rd Layer (2C) White Ceiling Plaster-1 st Layer (3A) Grey Ceiling Plaster-2 nd Layer (3B) White Wall Plaster-1 st Layer (4A) Grey Wall Plaster-2 nd Layer (4B) White Ceiling Plaster-1 st Layer (6A) Grey Ceiling Plaster-2 nd Layer (6B) White Wall Plaster-1 st Layer (7A) Grey Wall Plaster-2 nd Layer (7B) White Ceiling Plaster-1 st Layer (8A) Grey Ceiling Plaster-1 st Layer (8B) Tan Ceramic Shower Wall Tile Mastic (13) Tan Ceramic Shower Wall Tile Mastic (27) White Wall Spackle (29)	Friable	None Detected	None Detected None Detected
<u>Ceiling Systems</u> White/Grey Pinhole Fissure 2'X4' Ceiling Tile (9)	Friable	None Detected	
Miscellaneous Black Door Caulk (10) White Sink Undercoating (19)	Non-Friable Friable	Chrysotile 3.7% None Detected	
Windows Grey Window Glaze (5) Grey Window Glaze (14) Brown Window Caulk (15) Beige Window Glaze (20) Grey Window Glaze (21) Brown Window Caulk (26)	Non-Friable Non-Friable Non-Friable Non-Friable Non-Friable Non-Friable	None Detected None Detected Chrysotile 3.3% None Detected None Detected Chrysotile 1.4%	

CITY OF ROCHESTER BUILDING 2 1170 GENESEE STREET ROCHESTER, NEW YORK

ASBESTOS CONTAINING MATERIALS BY LOCATION

ENTIRE BUILDING

LOCATION	MATERIAL	COND.	CLASS	QUANTITY
Throughout	Window and Door Caulk (including	Good	Non-	63 Square Feet
	storm window caulk)		Friable	
	Window Glaze	Fair	Non-	125 Square
			Friable	Feet
	Grey Corrugated Pipe Insulation and Associated Mudded Joint Packings, White Fibrous Pipe Insulation and Associated Mudded Joint Packings, and Mudded Joint Packings on Fiberglass Pipe Insulation – located throughout basement, above basement ceiling, in walls and floors of entire building	Fair	Friable	2,100 Linear Feet

BASEMENT

LOCATION	MATERIAL	COND.	CLASS	QUANTITY			
Throughout	White Fibrous Pipe Insulation – In	Poor	Friable	Undetermined			
	Tunnel						
	Note: Two Line of White Fibrous Pipe Insulation runs underground from						
	Building 4 to Building 3						
	*Box of White Fibrous Block Insulation	Fair	Friable	1 Box			

FRONT ENTRANCE

LOCATION	MATERIAL	COND.	CLASS	QUANTITY
Throughout	Beige with Brown Streaks 12"X12" Floor Tile	Fair	NOB	50 Square Feet

APARTMENT 3

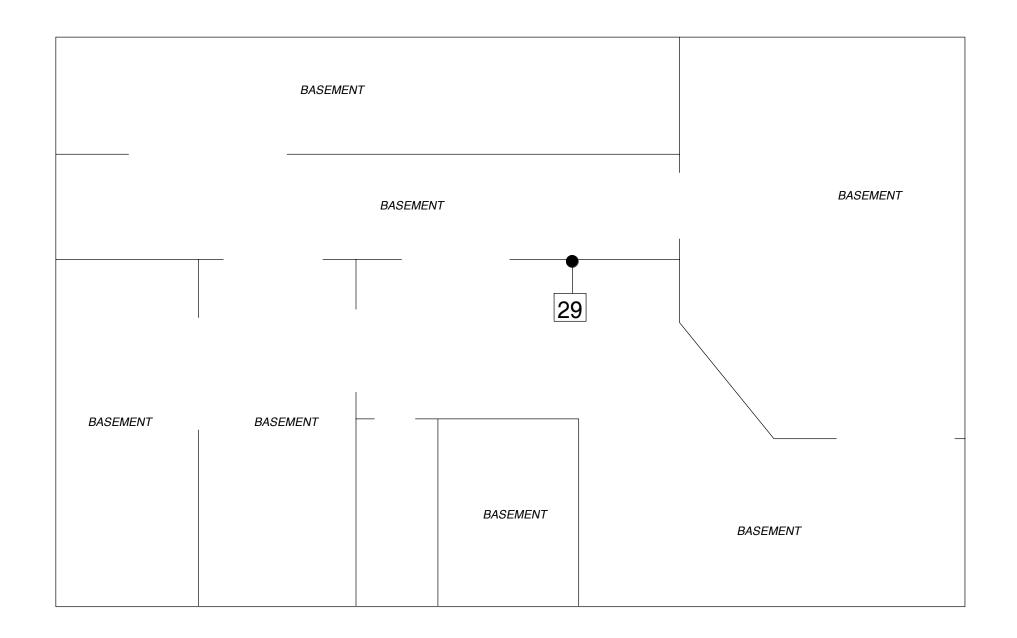
LOCATION	MATERIAL	COND.	CLASS	QUANTITY
Kitchen	Brown Floral Sheet Vinyl over Brown Floor Tile Mastic over Brown Floor Tile (3 Layers)	Good	NOB	48 Square Feet

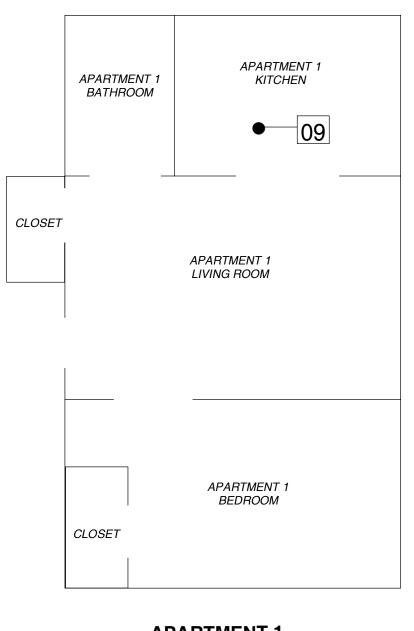
APARTMENT 5

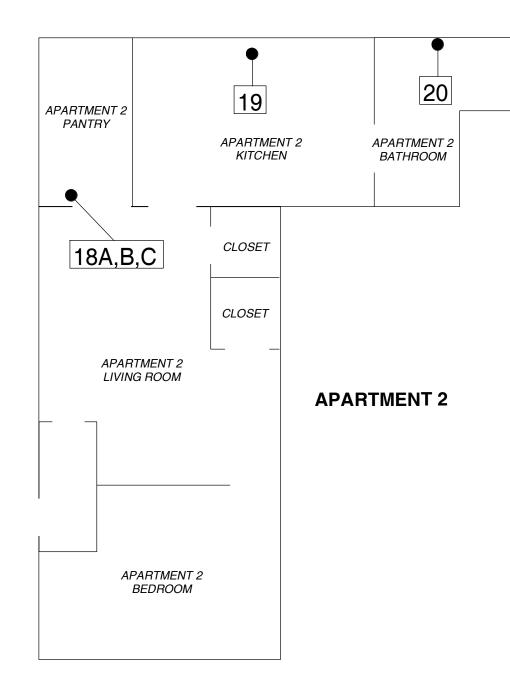
LOCATION	MATERIAL	COND.	CLASS	QUANTITY
Kitchen	Beige with Dark Brown Streaks	Good	NOB	90 Square Feet
	12"X12" Floor Tile			

Notes:

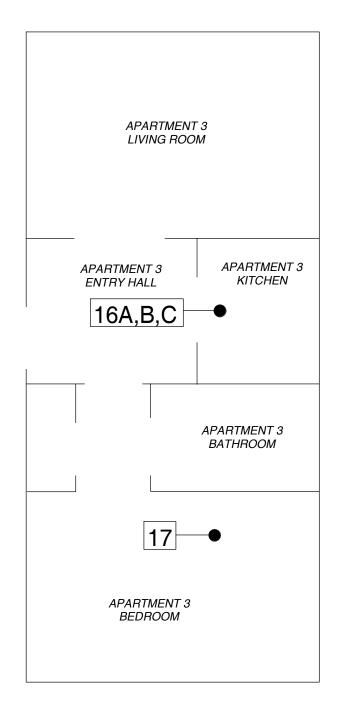
- Condition: Good = No visible damage and/or very limited deterioration. Fair = visible damage or deterioration on less than 25% of the material. Poor = visible damage or deterioration greater than 25%.
- All quantities are approximations and should be verified by contractor prior to removal.
- Ceramic floor tile mastic located in various bathrooms throughout the building were not sampled due to the destructive measures taken when obtaining a sample of this particular building material.
- * White fibrous pipe insulation, grey corrugated pipe insulation and its associated mudded joint packings, white fibrous block insulation, and mudded joint packings on fiberglass pipe insulation located in the basement were not sampled and are presumed to be asbestos containing.

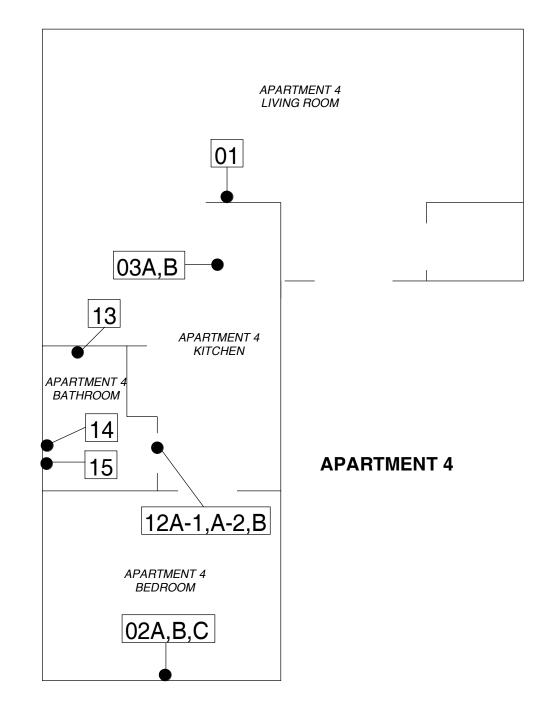




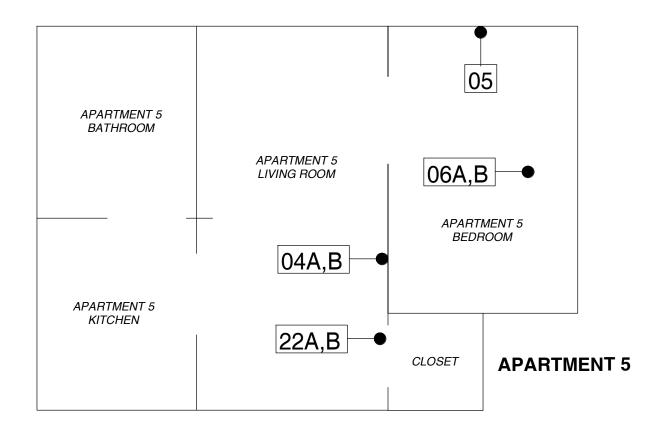


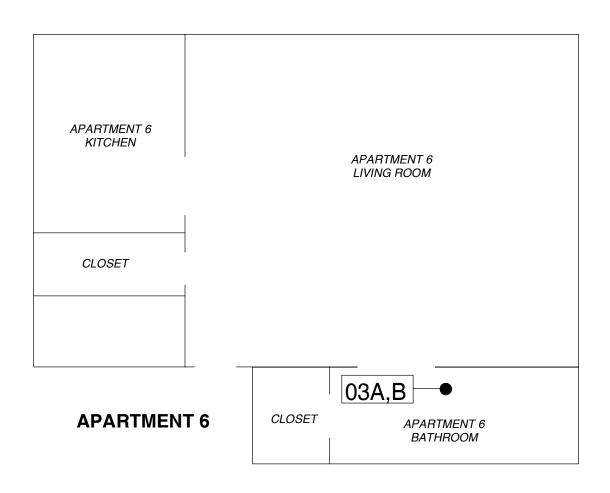
APARTMENT 1

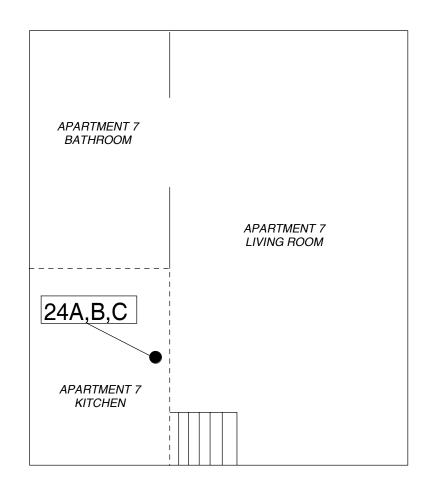


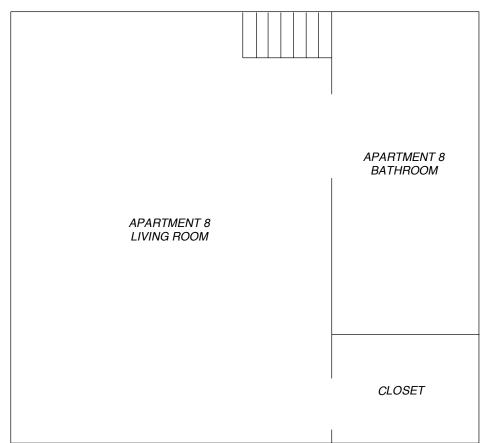


APARTMENT 3









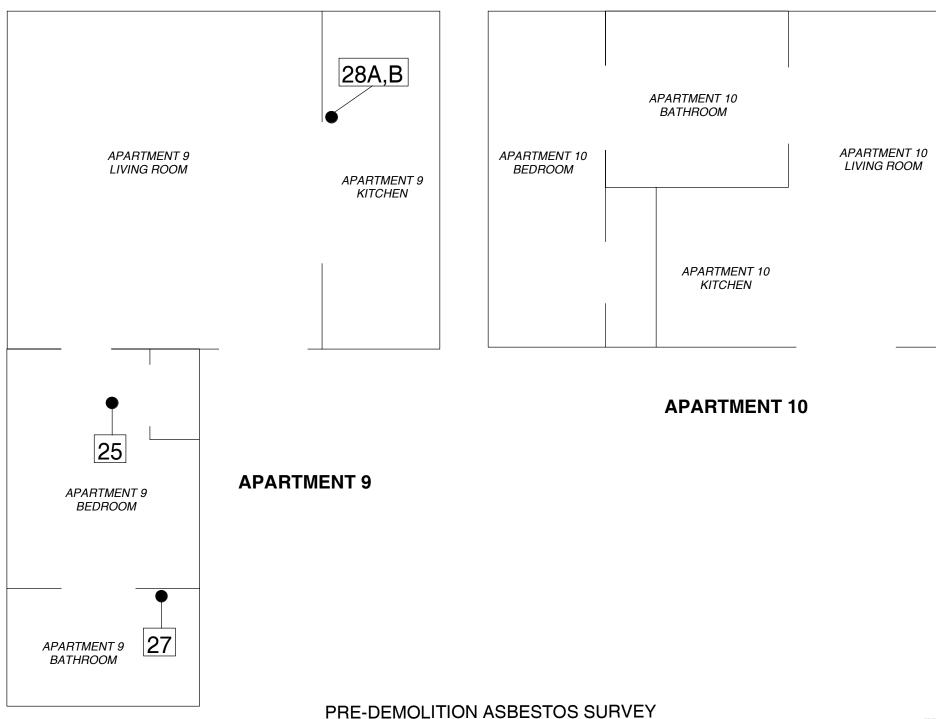
APARTMENT 7

APARTMENT 8

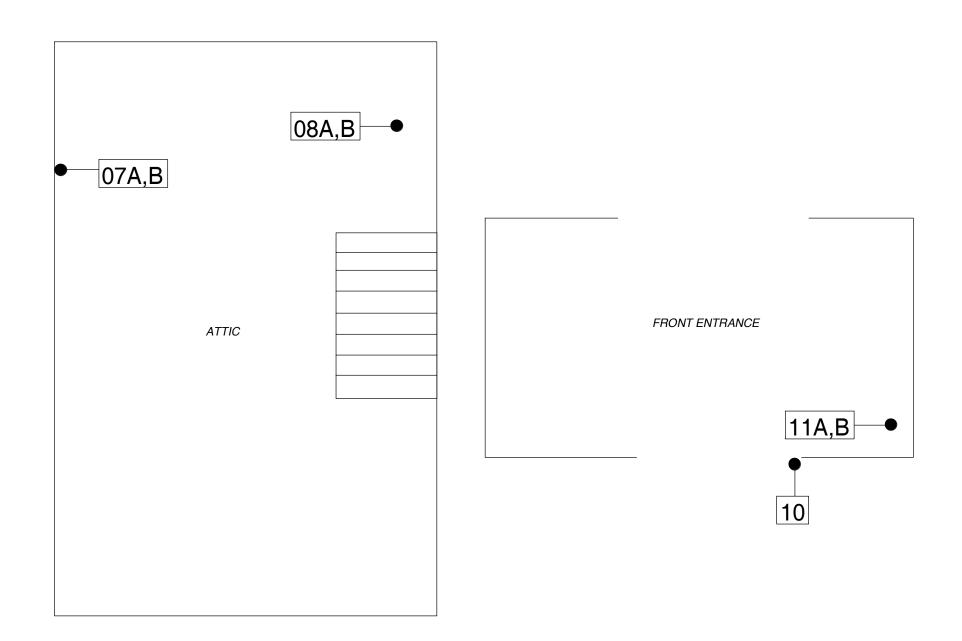
APARTMENT 8
MEZZANINE

APARTMENT 7 KITCHEN

PRE-DEMOLITION ASBESTOS SURVEY
BUILDING 2
SAMPLE LOCATIONS



PRE-DEMOLITION ASBESTOS SURVEY
BUILDING 2
SAMPLE LOCATIONS





Project Site:

LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET ROCHESTER, NEW YORK 14609 PHONE (585)-654-9080 FAX (585)-654-9662 NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY ELAP #11770

Client: City of Rochester

30 Church Street

Rochester, New York 14614

Attn: Curt Colombo

Laboratory No.: 22005

Date Received: 7/24/08

Report Date: 8/12/08

Analysis Date: 7/24/08 Page: 1 of 2

Building 2 - 1170 Genesee Street, Rochester, New York

SAMPLE INFORMATION

 Sample Date:
 7/23/08
 Location: InteriorExterior
 Analyst: T. Bush

 Sampler:
 R.Arthurs/A.Cartella
 Type of Sample: Bulk Asbestos
 Number of Samples:
 16

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	Asbestos Fibers (%)	Total Asbestos (%)	T E M	C L A S S	Non-Asbestos Fibers (%)	Matrix Material (%)
1	22005-1	Apartment 4 Living Room	White Wall Spackle	None Detected 0%	0%		F	None Detected 0%	100%
2A	22005-2A	Apartment 4 Bedroom	White Wall Plaster 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%
2B	22005-2B	Apartment 4 Bedroom	Grey Wall Plaster 2nd Layer	None Detected 0%	0%		F	Cellulose 5%	95%
2C	22005-2C	Apartment 4 Bedroom	Beige Wall Plaster 3rd Layer	Chrysotile <1%	<1%		F	None Detected 0%	>99%
3A	22005-3A	Apartment 4 Kitchen	White Ceiling Plaster 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%
3B	22005-3B	Apartment 4 Kitchen	Grey Ceiling Plaster 2nd Layer	None Detected 0%	0%		F	None Detected 0%	100%
4A	22005-4A	Apartment 5 Living Room	White Wall Plaster 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%
4B	22005-4B	Apartment 5 Living Room	Grey Wall Plaster 2nd Layer	None Detected 0%	0%		F	Animal Hair 5%	95%
5	22005-5	Apartment 5 Bedroom	Grey Window Glaze	None Detected 0%	0%		NF	None Detected 0%	100%
6A	22005-6A	Apartment 5 Bedroom	White Ceiling Plaster 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material: New York State ELAP Item 198.1 and NOB Material: ELAP Item 198.6.

 $\label{eq:material} \textbf{Material Classification:} \ \ \textbf{F= Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.}$

Analytical results relate only to the sample received and analyzed.

Analyst: J.Crowley - NIKON Optiphot 2 Polarized Light Microscope (136048) Analyst: T.Bush- Olympus BHS Polarized Light Microscope (BHS/245957)

Approved By:	
,	Laboratory Director



Project Site:

LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET **ROCHESTER, NEW YORK 14609** PHONE (585)-654-9080 FAX (585)-654-9662

NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY ELAP #11770

Client: City of Rochester

30 Church Street

Curt Colombo

Rochester, New York 14614

Date Received: 7/24/08 **Report Date: 8/12/08** Analysis Date: 7/24/08

Laboratory No.: 22005

Page: 2 of 2

Attn:

Building 2 - 1170 Genesee Street, Rochester, New York

SAMPLE INFORMATION

Sample Date: Analyst: T. Bush 7/23/08 Location: InteriorExterior Sampler: R.Arthurs/A.Cartella **Number of Samples:** 16 Type of Sample: Bulk Asbestos

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	Asbestos Fibers (%)	Total Asbestos (%)	T E M	C L A S	Non-Asbestos Fibers (%)	Matrix Material (%)
6B	22005-6B	Apartment 5 Bedroom	Grey Ceiling Plaster 2nd Layer	None Detected 0%	0%		F	Animal Hair 5%	95%
7A	22005-7A	Attic	White Wall Plaster 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%
7B	22005-7B	Attic	Grey Wall Plaster 2nd Layer	None Detected 0%	0%		F	None Detected 0%	100%
8A	22005-8A	Attic	White Ceiling Plaster 1st Layer	None Detected 0%	0%		F	None Detected 0%	100%
8B	22005-8B	Attic	Grey Ceiling Plaster 2nd Layer	None Detected 0%	0%		F	Animal Hair 3%	97%
9	22005-9	Apartment 1 Kitchen	White/Grey Pinhole Fissure 2'X4' Ceiling Tile	None Detected 0%	0%		F	Cellulose 20% mineral Wool 35% Fiberglass 25%	20%

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material: New York State ELAP Item 198.1 and NOB Material: ELAP Item 198.6.

Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

Analytical results relate only to the sample received and analyzed.

Analyst: J.Crowley - NIKON Optiphot 2 Polarized Light Microscope (136048) Analyst: T.Bush- Olympus BHS Polarized Light Microscope (BHS/245957)

Approved By:	
,	Laboratory Director



LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET ROCHESTER, NEW YORK 14609 PHONE (585)-654-9080 FAX (585)-654-9662 NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY ELAP #11770

Client: City of Rochester Laboratory No.: 22152
30 Church Street Date Received: 8/6/08
Rochester, New York 14614 Report Date: 8/12/0

Report Date: 8/12/08
Analysis Date: 8/8/08

Attn: Curt Colombo Page: 1 of 4

TEM Results on Following Pages

Project Site: Building 2 - 1170 Genesee Street, Rochester, New York

SAMPLE INFORMATION

 Sample Date:
 8/5/08
 Location: Interior Exterior
 Analyst: T. Bush

 Sampler:
 R.Arthurs/A.Cartella
 Type of Sample: Bulk Asbestos
 Number of Samples: 32

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	Asbestos Fibers (%)	Total Asbestos (%)	T E M	C L A S	Non-Asbestos Fibers (%)	Matrix Material (%)
10	22152-10	Front Entrance	Black Door Caulk	Chrysotile 3.7%	3.7%		NF	None Detected 0%	96.3%
11A	22152-11A	Front Entrance	Beige with Brown Streaks 12"X12" Floor Tile 1st Layer	Chrysotile 13.8%	13.8%		NOB	None Detected 0%	86.2%
11B	22152-11B	Front Entrance	Tan Floor Tile Mastic 2nd Layer	Inconclusive, Chrysotile Trace	Trace	*	NOB	None Detected 0%	>99%
12A-1	22152-12A- 1	Apartment 4 Kitchen	Beige with Brown Specks 12"X12" Floor Tile (Side by Side) 1st Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
12A-2	22152-12A- 2	Apartment 4 Kitchen	Beige Mottled 12"X12" Floor Tile (Side by Side) 1st Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
12B	22152-12B	Apartment 4 Kitchen	Tan Floor Tile Mastic 2nd Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
13	22152-13	Apartment 4 Bathroom	Tan Ceramic Shower Wall Tile Mastic	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
14	22152-14	Apartment 4 Bathroom	Grey Window Glaze	None Detected 0%	0%		NF	None Detected 0%	100%
15	22152-15	Apartment 4 Bathroom	Brown Window Caulk	Chrysotile 3.3%	3.3%		NF	None Detected 0%	96.7%
16A	22152-16A	Apartment 3 Kitchen	Brown Floral Sheet Vinyl 1st Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%

^{*}Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB). Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material: New York State ELAP Item 198.1 and NOB Material: ELAP Item 198.6.

Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

Approved By:	
,	Laboratory Director



LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET ROCHESTER, NEW YORK 14609 PHONE (585)-654-9080 FAX (585)-654-9662 NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY ELAP #11770

Client: City of Rochester
30 Church Street
Rochester, New York 14614

Date Received: 8/6/08 Report Date: 8/12/08 Analysis Date: 8/8/08 Page: 2 of 4

Laboratory No.: 22152

Attn: Curt Colombo Pag

TEM Results on Following Pages

Project Site: Building 2 - 1170 Genesee Street, Rochester, New York

SAMPLE INFORMATION

 Sample Date:
 8/5/08
 Location: Interior Exterior
 Analyst: T. Bush

 Sampler:
 R.Arthurs/A.Cartella
 Type of Sample: Bulk Asbestos
 Number of Samples: 32

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	Asbestos Fibers (%)	Total Asbestos (%)	T E M	C L A S	Non-Asbestos Fibers (%)	Matrix Material (%)
16B	22152-16B	Apartment 3 Kitchen	Brown Floor Tile Mastic 2nd Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
16C	22152-16C	Apartment 3 Kitchen	Brown Floor Tile 3rd Layer	Chrysotile 22.2%	22.2%		NOB	None Detected 0%	77.8%
17	22152-17	Apartment 3 Bedroom	White Pinhole Fissure 2'X4' Ceiling Tile	None Detected 0%	0%		F	Cellulose 40% Fiberglass 20%	40%
18A	22152-18A	Apartment 2 Pantry	Blue Speckled 12"X12" Floor Tile 1st Layer	None Detected 0%	0%	**	NOB	None Detected 0%	100%
18B	22152-18B	Apartment 2 Pantry	Black Floor Tile Mastic 2nd Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
18C	22152-18C	Apartment 2 Pantry	Green Battleship Flooring 3rd Layer	Inconclusive, None Detected 0%	0%	*	NOB	Cellulose 55%	45%
19	22152-19	Apartment 2 Kitchen	White Sink Undercoating	None Detected 0%	0%		F	Cellulose 60%	40%
20	22152-20	Apartment 2 Bathroom	Beige Window Glaze	None Detected 0%	0%		NF	None Detected 0%	100%
21	22152-21	Apartment 5 Living Room	Grey Window Glaze	None Detected 0%	0%		NF	None Detected 0%	100%
22A	22152-22A	Apartment 5 Living Room	Beige with Dark Brown Streaks 12"X12" Floor Tile 1st Layer	Chrysotile 16.7%	16.7%		NOB	None Detected 0%	83.3%

^{*}Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB). Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material: New York State ELAP Item 198.1 and NOB Material: ELAP Item 198.6.

Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

Approved By:	
,	Laboratory Director

^{**} Less than 1% residue remained after gravimetric reduction; TEM analysis not required.



LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET ROCHESTER, NEW YORK 14609 PHONE (585)-654-9080 FAX (585)-654-9662 NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY ELAP #11770

Client: City of Rochester
30 Church Street
Rochester, New York 14614

Date Received: 8/6/08 Report Date: 8/12/08 Analysis Date: 8/8/08 Page: 3 of 4

Laboratory No.: 22152

Attn: Curt Colombo

TEM Results on Following Pages

Project Site: Building 2 - 1170 Genesee Street, Rochester, New York

SAMPLE INFORMATION

 Sample Date:
 8/5/08
 Location: Interior Exterior
 Analyst: T. Bush

 Sampler:
 R.Arthurs/A.Cartella
 Type of Sample: Bulk Asbestos
 Number of Samples: 32

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	Asbestos Fibers (%)	Total Asbestos (%)	T E M	C L A S	Non-Asbestos Fibers (%)	Matrix Material (%)
22B	22152-22B	Apartment 5 Kitchen	Tan Floor Tile Mastic 2nd Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
23A	22152-23A	Apartment 6 Bathroom	Beige/Brown/Green Speckled 12"X12" Floor Tile 1st Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
23B	22152-23B	Apartment 6 Bathroom	Black/Tan Felt Paper/Floor Tile Mastic 2nd Layer	Inconclusive, None Detected 0%	0%	*	NOB	Cellulose 50%	50%
24A	22152-24A	Apartment 7 Kitchen	Brown Floral Sheet Vinyl 1st Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
24B	22152-24B	Apartment 7 Kitchen	Tan Floor Tile Mastic 2nd Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
24C	22152-24C	Apartment 7 Kitchen	Green Battleship Flooring 3rd Layer	Inconclusive, None Detected 0%	0%	*	NOB	Cellulose 50%	50%
25	22152-25	Apartment 9 Bedroom	Black Floor Mastic	Chrysotile Trace	Trace	**	NOB	None Detected 0%	>99%
26	22152-26	Apartment 9 Bathroom	Brown Window Caulk	Chrysotile 1.4%	1.4%		NF	None Detected 0%	98.6%
27	22152-27	Apartment 9 Bathroom	Tan Ceramic Shower Wall Tile Mastic	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%
28A	22152-28A	Apartment 9 Kitchen	Brown/Blue/White Speckled 12"x12" Floor Tile 1st Layer	Inconclusive, None Detected 0%	0%	*	NOB	None Detected 0%	100%

^{*}Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB). Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material: New York State ELAP Item 198.1 and NOB Material: ELAP Item 198.6.

Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

Approved By:	
,	Laboratory Director

^{**} Less than 1% residue remained after gravimetric reduction; TEM analysis not required.



Attn:

Curt Colombo

LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET ROCHESTER, NEW YORK 14609 PHONE (585)-654-9080 FAX (585)-654-9662 NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY ELAP #11770

Client: City of Rochester

30 Church Street

Date Received: 8/6/08

Page 14614

Page 14614

Report Page 14614

Rochester, New York 14614 Report Date: 8/12/08
Analysis Date: 8/8/08

Page: 4 of 4

TEM Results on Following Pages

Project Site: Building 2 - 1170 Genesee Street, Rochester, New York

SAMPLE INFORMATION

 Sample Date:
 8/5/08
 Location: InteriorExterior
 Analyst: T. Bush

 Sampler:
 R.Arthurs/A.Cartella
 Type of Sample: Bulk Asbestos
 Number of Samples: 32

ASBESTOS BULK LABORATORY REPORT

Client ID	Lab ID	Sampling Location	Description	Asbestos Fibers (%)	Total Asbestos (%)	T E M	C L A S S	Non-Asbestos Fibers (%)	Matrix Material (%)
28B	22152-28B	Apartment 9 Kitchen	Black Floor Tile Mastic 2nd Layer	Inconclusive, Chrysotile Trace	Trace	*	NOB	None Detected 0%	>99%
29	22152-29	Basement	White Wall Spackle	None Detected 0%	0%		F	None Detected 0%	100%

^{*}Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings & similar non-friable organically bound materials (NOB). Quantitative Transmission Electron Microscopy (TEM) is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Analysis Method: Polarized Light Microscopy (PLM) - Friable Material: New York State ELAP Item 198.1 and NOB Material: ELAP Item 198.6.

Material Classification: F = Friable, NF = Non-Friable, NOB = Non-Friable Organically Bound.

08/12/2008

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See Reporting notes on last page

Location: 1.7%

AmeriSci Jab #: 208082716

Client Name: Lozier Environmental Consulting, Inc.

Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4 NOB Method 22152, City Of Rochester; 1170 Genesee St., Bldg #2 Table!

** Aspestos % by TEM	<u>!</u>	NAD		NAD		NAD	;	NAC	CIAN		NAD	2		NAD	9		NAD	2	<u> </u>	NAD	C v	Q.	NAD	
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	Client Sample#	22152-118		22152-1 28 1	22452 1243	7071-76177	22152-12B	! !	22152-13	480		22152-18C		22152-226	22152-23A		22152-23B	6 22152-24A		22152-24B	% 22152-24C		22152-27	% 22152-28A
AmeriSci		01	Location: 33.0%	05	Location: 20.0%	03	Location: 4.7%	U4 Location: 36.0%	05	Location: 16.0%	98	Location: 29.0% 07	Location: 9.2%	609	Location: 29.0%	Location: 1.8%	10	Location: 19.0% 11	Location: 9.2%	12	Location: 26.0%	Location: 15.0%	14	Location: 53.0% 15

Page 2 of 2

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Client Name:

Table I

Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4 NOB Method

22152; City Of Rachester; 1170 Genesee St., Bldg #2

** Asbestos % by TEM		
insoluble Non-Asbestos Inorganic %		
Acid Soluble Inorganic %		
Heat Sensitive Organic %		
Sample Weight (gram)	ļ	
HG Area		
Client Sample#	22152-28B	.5%
AmeriSci Sample#	16	Lacation: 4.5%

(Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or ELAP 198.4 for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <91 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses); AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH PLM W EPA BOOMA-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM ; Dave Analyzed 8/12/2008 Analyzed by: Aleksandr Barengotts_

Warning Note. PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials). ELAP LAB ID 11480.

Reviewed By

PLM ASBESTOS BULK MATERIAL SAMPLES

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LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET, ROCHESTER, NEW YORK 585-654-9080

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TIME: 500

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PLM ASBESTOS BULK MATERIAL SAMPLES Page Z

LOZIER ENVIRONMENTAL CONSULTING, INC. 2011 EAST MAIN STREET, ROCHESTER, NEW YORK 585-654-9080

Client:	City of Rochester	ster	Sampling Date: 7 33 08	Lab No.:	3300S	205/		
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	Rochester, N	Rochester, New York 14614	Location: Myllding 2	6				
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DATE:	2/24/08	TIME: XOS						

LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET, ROCHESTER, NEW YORK 585-654-9080

PLM ASBESTOS BULK MATERIAL SAMPLES

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PLM ASBESTOS BULK MATERIAL SAMPLES

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LOZIER ENVIRONMENTAL CONSULTING, INC.

2011 EAST MAIN STREET, ROCHESTER, NEW YORK 585-654-9080

Treed + + 1 DCB SSS NSQ 7 500 500 F. Z 5 7 NOB BOB ナめとさ 22152 TEM: Send Notify First Layer ~ (6) 5 77 0114201 J.P. MPCPP SANK LIMPROPERS PRINCE AND PRINCIPAL STREAMS AND FIT WINCEN CHIEF Lab No.: MINIE MANDIE FISSAITE, 2X4 OT Material Type 4 FIND(1100) R. Arthurs 0411-8 Turn Around: Immed. 24 Hr. 48Hr. Std. Relinquished By: Location: PANICALINO) LINGEN BRAINS $\frac{\infty}{n}$ PANIE CHOILLY HA Color/Description Sampling Date: No. Samples: Sampled By: MUNICIPAL COUNTY MITHINGS I O' JUNY / Room/Area Location Proprieting RANSPORTED TO: LOZIER ENVIRONMENTAL CONSULTING, INC. Rochester, New York 14614 , (C > 7 471 Jan - 20166 Fax# 1 City of Rochester 30 Church Street Curt Colombo ASE ASE か い こ で Z \leq Lab ID Client ID SHOW THE SHOW Address: hone # Sontact: Slient:

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PLM ASBESTOS BULK MATERIAL SAMPLĘS Page 3

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2011 EAST MAIN STREET, ROCHESTER, NEW YORK 585-654-9080

LOZIER ENVIRONMENTAL CONSULTING, INC.

+ 5 500 The percent shampy want in properties SOR **200** 80B NCP SCO. u Z u 0 0 2 2215 Notify First talks abouted Layer 5 (7 TIME: BARDE MONITURAL BARDELLED TAXIDET 7 MIND CRITICAL Provisor Police Hain to Sovere tech 10x10 FT CITY IN IDEX LATIN TEM: Send CALLOCAL COMPANY OF A COLUMN THOUT MORTH Lab No.: **Material Type** R. Arthurs 7-1-6 Turn Around: Immed. 24 Hr. 48Hr. Std. DATE: Relinquished By: Location: (MINININI) 1000 A COR Color/Description \leq Sampling Date: No. Samples: Sampled By: That is Prithminh POSTANO? HOLD - CHRINEN KITHING M. MONDEY - DITORY JI duliyer) Room/Area Location 4 RANSPORTED TO: LOZIER ENVIRONMENTAL CONSULTING, INC. **M** Rochester, New York 14614 TIME: 、七、七、七 Fax # City of Rochester 30 Church Street 921/58/90b ながの Curt Colombo 95.CE A4M 5 34R 240 Lab ID RECEIVED BY: Client ID SON THE SON TH 346 A46 938 J. 1990 ALC. Phone # シンゴ Address: contact: Slient: ATE: PLM ASBESTOS BULK MATERIAL SAMPLES Page 4 of

> 2011 EAST MAIN STREET, ROCHESTER, NEW YORK 585-654-9080 LOZIER ENVIRONMENTAL CONSULTING, INC.

TEN TIP TIP HZ L 2 0 0 0 HOURS DESILED OF I 22152 TEM: Send Notify First Layer 75 R. Arthurs | M. (Mitteller) Lab No.: **Material Type** Location: PMINON 3 -Turn Around: Immed. 24 Hr. 48Hr. Std. 2 1 1 8 Relinquished By: Color/Description J Sampling Date: No. Samples: Sampled By: Room/Area Location 23153-386 Apr. 9- VITUALIA PANAPHURIT RANSPORTED TO: LOZIER ENVIRONMENTAL CONSULTING, INC. 732 Rochester, New York 14614 TIME: **Fax** # City of Rochester 30 Church Street Curt Colombo Lab ID ECEIVED-BY: Client ID Sontact: Address: hone # Slient: ATE:

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PAGE 04/04

LOZIER ENVIRONMENTAL CONSULTING, INC. ELAP No. 11770 2011 EAST MAIN STREET, ROCHESTER, NY 11609

208082716-TEM NOB ASBESTOS ANALYSIS CHAIN of CUSTODY

	12 11 - 24 Hrs <72 Hrs.
Lozier Contact: Tamar Bush	Turn Around: RUSH <12 Hrs. <24 Hrs. <48 Hrs. <72 Hrs.
Office Phone: 585-654-9080	Sample Type: Whole Bulk
	Acid Residue
Office Fax: 585-654-9662	CITY OF POCHESTER

CITY OF ROCHESTER

No. Samples: Location: 1170 Genesce ST. Bldg #2

Lozier Sample ID	Percent Inert (Acid) Residue	Lozier Sample ID	Percent Inert (Acid) Residue
22152-113	33		
22152-12A1	20		
22152-12A2	4.7		
22152-128	36		
12152-13	16		
23152-188	29		
22152-18BC	9-2		
22-152-1201 220	3 29		
22152-23A	1.8		
22152-23B	19		
22152-24A	9.2		
22152-248	26		
22152-24C	15		
22152-27	53		
22152-28A	107		
22152-28B	4.5		

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Shipped by		
Date: 8/11/08 Date	:: -	

NEW YORK STATE - DEPARTMENT OF LABOR

DIVISION OF SAFETY AND HEALTH LICENSE AND CERTIFICATE UNIT STATE CAMPUS BUILDING 12 ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

Lozier Environmental Consulting, Inc. 2011 East Main Street Rochester, NY 14609 FILE NUMBER: 02-0434 LICENSE NUMBER: 29997 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 05/09/2008 EXPIRATION DATE: 05/31/2009

Duly Authorized Representative - Ronald A Arthurs:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maureen A. Cox, Director FOR THE COMMISSIONER OF LABOR

SH 432 (4-07)

NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER

RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2009 Issued April 01, 2008

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. JEANNE K. DENIKE LOZIER ENVIRONMENTAL CONSULTING, INC 2011 EAST MAIN STREET ROCHESTER, NY 14609

NY Lab Id No: 11770 EPA Lab Code:

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material

EPA 600/M4/82/020

Serial No.: 36454

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER

RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2009 Issued April 01, 2008

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA AMÉRICA SCIENCE TEAM NEW YORK INC 117 EAST 30TH ST NEW YORK, NY 10016

NY Lab Id No: 11480 EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material

EPA 600/M4/82/020

Item 198.1 of Manual

Asbestos in Non-Friable Material-PLM

Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material-TEM ITEM 198.4 OF MANUAL

Serial No.: 36240

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STATE OF NEW YORK - DEPARTMENT OF LABOR ASBESTOS CERTIFICATE

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CEAT# 91-01793 DMV# 107698477

MUST BE CARRIED ON ASBESTOS PROJECTS

EYES BRO HAIR BRO HGT 5' 10" IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

STATE OF NEW YORK - DEPARTMENT OF LABOR ASSESTOS CERTIFICATE





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MUST BE CARRIED ON ASSESTOS PROJECTS

MANAGEMENT OF THE PROPERTY OF

EYES BLU HAIR BRO HGT 5' 10" IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 290A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

STATE OF NEW YORK - DEPARTMENT OF LABOR ASBESTOS CERTIFICATE

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CERT# 97-13919 DMV# 202917970

MUST BE CARRIED ON ASBESTOS PROJECTS

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EYES BLU
HAIR GRY
HGT 5' 09"

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
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STATE OFFICE CAMPUS
ALBANY NY 12240